

ABSTRACT

A photosensitive composition having low absorption loss at 1,300-1,610 nm and is suitable for practical waveguide devices. The composition comprises at least one (meth)acrylate prepared from a fluorinated monomer or polymer having minimum two hydroxyl groups, at least one multifunctional non-fluorinated (meth)acrylate and at least one photoinitiator. An optical coating on a variety of substrates is obtained by exposing the photosensitive composition to actinic radiation such as UV light. An optical waveguide device is fabricated by patterning the photosensitive composition on a substrate.

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